CLAIMS

What is claimed is:

1. An electrical fuse box comprising:

an upper frame;

a plurality of electrical components pre-assembled within said upper frame;

a lower frame, wherein said lower frame is dimensioned and configured to engage said upper frame;

a plurality of connector modules pre-assembled within said lower frame, wherein said connector modules are dimensioned and configured to electrically engage electrical wires;

an upper cover mounted on said upper frame; and

a lower cover mounted on said lower frame.

2. The electrical fuse box of claim 1, wherein said electrical components comprise relays, circuit breakers, J-case fuses, and blade fuses.

3. The electrical fuse box of claim 1, further comprising spacers positioned within said lower frame for locking said electrical wires.

4. The electrical fuse box of claim 1, wherein said connector modules make an electrical connection with said electrical components.

5. The electrical fuse box of claim 1, wherein each of said upper frame and lower frame comprises at least one locking receiver.

6. The electrical fuse box of claim 5, wherein each of said upper cover and said lower cover comprise a locking member dimensioned and configured to engage said locking receiver of said upper frame and said lower frame, respectively.

7. The electrical fuse box of claim 1, wherein each of said upper cover and said lower cover are pivotally mounted on said upper frame and said lower frame, respectively.

8. An electrical fuse relay box comprising:

an upper frame having an upper compartment;

a plurality of electrical components pre-assembled within said upper compartment;

a lower frame having a lower compartment, wherein said lower frame is dimensioned and configured to engage said upper frame;

a plurality of connector modules pre-assembled within said lower compartment, wherein said connector modules are dimensioned and configured to electrically engage electrical wires;

an upper cover mounted on said upper compartment; and

a lower cover mounted on said lower compartment.

9. The electrical fuse relay box of claim 8, wherein said electrical components comprise relays, circuit breakers, J-case fuses, and blade fuses.

10. The electrical fuse relay box of claim 8, further comprising spacers positioned within said lower compartment for locking said electrical wires.

11. The electrical fuse relay box of claim 8, wherein said connector modules make an electrical connection with said electrical components.

12. The electrical fuse relay box of claim 8, wherein each of said upper frame and said lower frame comprises at least one locking receiver.

13. The electrical fuse relay box of claim 12, wherein each of said upper cover and said lower cover comprise a locking member dimensioned and configured to engage said locking receiver of said upper frame and said lower frame, respectively.

14. The electrical fuse relay box of claim 8, wherein each of said upper cover and said lower cover are pivotally mounted on said upper frame and said lower frame, respectively.

15. An electrical fuse relay box comprising:

an upper frame having an upper compartment and a first locking receiver;

a plurality of electrical components pre-assembled within said upper compartment;

a lower frame having a lower compartment and a second locking receiver, wherein said lower frame is dimensioned and configured to engage said upper frame;

a plurality of connector modules pre-assembled within said lower compartment, wherein said connector modules are dimensioned and configured to electrically engage electrical wires;

spacers positioned within the lower compartment for locking said electrical wires;

an upper cover pivotally mounted on said upper compartment; and

a lower cover pivotally mounted on said lower compartment,

wherein said upper cover comprises a first locking member dimensioned and configured to engage said first locking receiver, and

wherein said lower cover comprises a second locking member dimensioned and configured to engage said second locking receiver.

16. The electrical fuse relay box of claim 15, wherein said electrical components comprise relays, circuit breakers, J-case fuses, and blade fuses.

17. The electrical fuse relay box of claim 15, wherein said connector modules make an electrical connection with said electrical components.

18. A method of pre-assembling an electrical fuse relay box, said electrical fuse relay box comprising an upper frame attached to a lower frame, said upper frame having an upper compartment and said lower frame having a lower compartment, said method comprising:

mounting a plurality of electrical components within said upper compartment in a pre-locked position;

mounting a plurality of connector modules and spacers within said lower compartment, wherein said connector modules being configured for electrically engaging electrical wires;

positioning an upper cover on said upper compartment;

positioning a lower cover on said lower compartment;

locking said electrical wires into position with said spacers;

pushing said electrical components into a set position; and

attaching said upper frame to said lower frame.

19. The method of claim 18, wherein said electrical components comprise relays, circuit breakers, J-case fuses, and blade fuses.

20. The method of claim 18, wherein said connector modules make an electrical connection with said electrical components.

21. The method of claim 18, wherein each of said upper frame and said lower frame comprises at least one locking receiver.

22. The method of claim 21, wherein each of said upper cover and said lower cover comprise a locking member dimensioned and configured to engage said locking receiver of said upper frame and said lower frame, respectively.

23. The method of claim 18, further comprising locking said electrical fuse box by pivotally mounting said upper cover and said lower cover on said upper frame and said lower frame, respectively.